BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to Roads and Drains and Construction of Culverts at Mariyannapalya Colony and Others Area in ward No. 06, Byatarayanapura Sub Division**

Pre-Measurements

Job Code : 006-20-000164

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BRUHATH BANGALORE MAHANAGARAPALIKE
YELAHANKA ZONE
Pre Measurements

Name of work: Improvements to Roads and Drains and Construction of Culverts at Mariyannapalya Colony and Others Area in ward No. 06, Byatarayanapura Sub Division
Work Order No: BBMP/EE/BTP/WO/190/2019-20 dt: 16.01.2020
JOB NUMBER: 006-20-000164
Estimate Cost: 100.00 lakhs.
As No: AS/EE(BTP)/92/2019-20 Dt: 29.11.2019
Ts No :TS/ SE(YNK) /21/2019-20 dt : 07.01.2020
Name of Contractor : M/s Executive Engineer, KRIDL

Sl No	Description of item	Unit	No	L	B	D	Qty
1	KSRRB M200-24. Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceeding 0.02 cum in volume and stock piling at designated locations and disposal of dismantled materials stacking serviceable and unserviceable materials seperately complete as per specifications. MORTH Specification No. 202 **P.No. 140/ Item No. 18.47 / PWD SR 2018-19**						
	CC Road 1st cross	Cum	1	30.00	3.00	0.15	13.50
			1	31.00	3.00	0.15	13.95
	2nd cross		1	30.00	4.55	0.15	20.48
			1	29.00	4.55	0.15	19.79
	3rd cross		3	30.00	4.55	0.15	61.43
			1	38.00	5.20	0.15	29.64
	3rd A cross		1	30.00	5.20	0.15	23.40
			1	21.00	5.20	0.15	16.38
	4th cross		1	30.00	5.10	0.15	22.95
			1	29.00	5.10	0.15	22.19
	5th cross		1	9.15	2.75	0.15	3.77
			1	30.00	6.10	0.15	27.45
			1	29.00	6.10	0.15	26.54
			1	30.00	3.95	0.18	21.33
			1	30.00	3.95	0.18	21.33
			1	30.00	3.90	0.18	21.06
			1	21.00	3.95	0.18	14.93
						Actiual Qty	**380.11**
						Limited to	**379.40**

10/2/2020
Assistant Engineer
ಬಿ.ಬಿ.ಎಂ.ಪ Ward No. 06

10/2/2020
Assistant Executive Engineer
Byatarayanapura Sub Division

2	**Removing & Refixing stone slabs of drains** and pointing in C.M (1:3) P.No. 27/ Item No. 5.337 PWD SR						
a	**drain covering slabs Main road R/s**	sqm	1	31.00	0.90		27.90
			1	23.00	0.90		20.70
			1	19.00	0.90		17.10
			1	21.00	0.90		18.90
			1	10.00	0.90		9.00
			1	19.00	0.90		17.10
			1	19.00	0.90		17.10
b	**drain slabs**						
	5th cross		1	9.15	1.35		12.35
			1	59.00	1.35		79.65
			1	45.00	1.35		60.75
			1	15.00	1.35		20.25
						Actiual Qty	**300.80**
						Limited to	**301.44**

24/2/2020
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ಬಿ.ಬಿ.ಎಂ. Ward No. 06

24/2/2020
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3	**Removing and resetting of kerb stones** P.No. 270/ Item No. 37.57 / PWD SR 2018-19					
		Rmtr				
	Kerb stones main road R/s		1	15.00		15.00
			1	15.00		15.00
			1	12.00		12.00
			1	14.00		14.00
			1	15.00		15.00
					Actiual Qty	**71.00**
					Limited to	**70.00**

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

5	KSRRB 300-1. **Earth work excavation by manual means** in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19					
		Cum				
a	**For RCC Drain**		1	31.00	1.20	1.10	40.92
			1	23.00	1.20	1.10	30.36
			1	19.00	1.20	1.10	25.08
			1	21.00	1.20	1.10	27.72
			1	10.00	1.20	1.10	13.20
			1	19.00	1.20	1.10	25.08
			2	30.00	1.20	1.10	79.20
			1	12.00	1.20	1.10	15.84
	kanikraj house road		1	30.00	1.20	1.10	39.60
			1	11.00	1.20	1.10	14.52
	short		1	30.00	1.20	1.00	36.00
			1	20.00	1.20	1.00	24.00
b	**For culverts**		1	3.65	2.00	1.00	7.30
			1	4.26	2.00	1.00	8.52
			1	4.26	2.00	1.00	8.52
			1	4.26	2.00	1.00	8.52
			1	3.65	2.00	1.00	7.30
			1	5.20	2.00	1.00	10.40
			1	5.10	2.00	1.00	10.20
c	**Road Surface for CC Road 1st cross**		1	30.00	3.00	0.30	27.00
			1	31.00	3.00	0.25	23.25
	2nd cross		1	30.00	4.55	0.30	40.95
			1	29.00	4.55	0.25	32.99
	3rd cross		3	30.00	4.55	0.30	122.85
			1	38.00	5.20	0.30	59.28
	3rd a cross		1	30.00	5.20	0.25	39.00
			1	21.00	5.20	0.25	27.30
	4th cross		1	30.00	5.10	0.30	45.90
			1	29.00	5.10	0.25	36.98
	5th cross		1	9.15	2.75	0.30	7.55
			1	30.00	6.10	0.25	45.75
			1	29.00	6.10	0.30	53.07
			1	30.00	3.95	0.30	35.55
			1	30.00	3.95	0.25	29.63

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		1	30.00	3.90	0.25	29.25
		1	21.00	3.95	0.25	20.74
	desilting of existing drain	4	30.00	0.60	0.55	39.60
				Actiual Qty		1148.90
				Limited to		1143.00

at

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

6 KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 20kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 **Page No. 222 / It No. 27.18/ PWD SR 2018-19**

		Cum					
a	**For RCC Drain**		1	31.00	1.15	0.15	5.35
			1	23.00	1.15	0.15	3.97
			1	19.00	1.15	0.15	3.28
			1	21.00	1.15	0.15	3.62
			1	10.00	1.15	0.15	1.73
			1	19.00	1.15	0.15	3.28
			1	72.00	1.15	0.15	12.42
			1	41.00	1.15	0.15	7.07
	kanikraj house road		1	50.00	1.15	0.15	8.63
b	For Culverts		1	3.65	2.00	0.15	1.10
			1	4.26	2.00	0.15	1.28
			1	4.26	2.00	0.15	1.28
			1	4.26	2.00	0.15	1.28
			1	3.65	2.00	0.15	1.10
			1	5.20	2.00	0.15	1.56
			1	5.10	2.00	0.15	1.53
c	**Road Surface for CC Road 1st cross**		1	30.00	3.00	0.15	13.50
			1	31.00	3.00	0.15	13.95
			1	30.00	4.55	0.15	20.48
	2nd cross		1	29.00	4.55	0.15	19.79
			3	30.00	4.55	0.13	53.24
	3rd cross		1	38.00	5.20	0.13	25.69
			1	30.00	5.20	0.15	23.40
	3rd a cross		1	21.00	5.20	0.13	14.20
			1	30.00	5.10	0.15	22.95
	4th cross		1	29.00	5.10	0.13	19.23
			1	9.15	2.75	0.15	3.77
	5th cross		1	30.00	6.10	0.13	23.79
			1	29.00	6.10	0.15	26.54
			1	30.00	3.95	0.15	17.78
			1	30.00	3.95	0.15	17.78
			1	30.00	3.90	0.15	17.55
			1	21.00	3.95	0.15	12.44
					Actiual Qty		404.50
					Limited to		398.85

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9 KSRRB M 1200-15.2: Plain / Reinforced cement concrete M20 with OPC Cement @ 320kgs, with 20mm and down size graded granite metal coars aggreagates @0.69 cum and fine aggreagates @ 0.46 cum, with superplastiser@ 3lts confirming to IS9103 -1999 Reaffirmed -2008, in open foundation complete as per drawing and technical specifications case-II, with batching plant transist mixer and concrete MORTH specification No. 1500, 1700 & 2100,/P No. 222/ Item No. 27.27/ PWD SR 2018-19

		cum					
a	Culverts coping		2	3.60	0.60	0.12	0.52
			2	4.20	0.60	0.12	0.60
			2	4.20	0.60	0.12	0.60
			2	4.20	0.60	0.12	0.60
			2	3.60	0.60	0.12	0.52
			2	5.20	0.60	0.12	0.75
			2	5.10	0.60	0.12	0.73
	for Vent		1	3.60	0.60	0.15	0.32
			1	4.20	0.60	0.15	0.38
			1	4.20	0.60	0.15	0.38
			1	4.20	0.60	0.15	0.38
			1	3.60	0.60	0.15	0.32
			1	5.20	0.60	0.15	0.47
			1	5.10	0.60	0.15	0.46
	for coping existing masonry drain		2	30.00	0.60	0.10	3.60
			1	30.00	0.60	0.15	2.70
			1	30.00	0.60	0.15	2.70
			1	9.15	0.60	0.13	0.71
	Drain vent		1	30.00	0.60	0.13	2.34
			1	29.00	0.60	0.13	2.26
			1	45.00	0.60	0.13	3.51
			1	36.00	0.60	0.13	2.81
			2	9.15	0.20	0.13	0.48
	flagging coping		2	30.00	0.20	0.13	1.56
			2	29.00	0.20	0.13	1.51
			2	45.00	0.20	0.13	2.34
			2	36.00	0.20	0.13	1.87
			2	5.20	0.85	0.15	1.33
	for ramps		2	5.10	0.85	0.15	1.30
			3	4.20	0.75	0.13	1.23
						Actiual Qty	**39.29**
						Limited to	**39.11**

C/RC 21/5/2020

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

12 KSRRB M2200-6. **Providing T.M.T. steel reinforcement for R.C.C. work** including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per disign (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM complete as per specification. MORTH Specification No.1600 & 2200 -do- TMT Bars Fe 500 **PWD SR 2018-19 P.No 229 It 28.8.2**

for RCC drain

10 mm dia main bars

For RCC Drain	155	1	2.20	341.00
	115	1	2.20	253.00
	95	1	2.20	209.00
	105	1	2.20	231.00
	50	1	2.20	110.00
	95	1	2.20	209.00
	150	1	2.20	330.00
	60	1	2.20	132.00
kanikraj house road	150	1	2.20	330.00
	55	1	2.20	121.00
	150	1	2.20	330.00
	100	1	2.20	220.00

C/RC 26/05/2020

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				Total Length in Mtr		2816.00
				wt @ 0.62kg/mtr		4541.94
b	8 mm dia distribution bars For RCC Drain	14	31.00			434.00
		14	23.00			322.00
		14	19.00			266.00
		14	21.00			294.00
		14	10.00			140.00
		14	19.00			266.00
		14	30.00			420.00
	kanikraj house road	14	12.00			168.00
		14	30.00			420.00
		14	11.00			154.00
		14	30.00			420.00
		14	20.00			280.00
				Total Length in Mtr		3584.00
				wt @ 0.39kg/mtr		9189.74
				Tota Wt in kgs		13731.68
				or Tonnes		13.73
				Ltd to		
	Tonne			Actiual Qty		8.73
				Limited to		8.71

26/05/2020

Assistant Engineer
Ward No. 06

26/5/2020

Assistant Executive Engineer
Byatarayanapura Sub Division

18 **Earthwork excavation** for foundation of buildings, **water supply, sanitary lines** and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m after breaking of clods complete as per specifications (P.NO - 5, I.NO - 2.4, PWD SR-2018-19)

		cum				
	1st cross	2	30.00	0.60	0.85	30.60
	2nd cross	1	30.00	0.60	0.90	16.20
		1	25.00	0.60	0.85	12.75
	3rd cross	2	30.00	0.60	0.90	32.40
		1	15.00	0.60	0.85	7.65
		1	30.00	0.60	0.85	15.30
	3rd A cross	1	40.00	0.60	0.85	20.40
	4th cross	1	30.00	0.60	0.85	15.30
		1	20.00	0.60	0.85	10.20
	5th cross	1	45.00	0.60	0.85	22.95
	main road	6	30.00	0.60	0.90	97.20
	kanikraj road	2	30.00	0.60	0.90	32.40
					Actiual Qty	313.35
					Limited to	313.20

02/06/2020

Assistant Engineer
Ward No. 06

Assistant Executive Engineer
Byatarayanapura Sub Division

19 **Providing and installing at site of work 63mm (0.662) PVC Pipes** of 6 kg / cm2 including cost of pipes and specials and labour, including lowering into trenches, laying true to line, level and perfect linking at joints leak proof including jointing of approved type with all labour and lift charges, handling charges including encasing the pipe alround to a depth not less than 15cms with gravel or selected earth available from the excavation etc., complete.

		Rmtr				
	1st cross	2	30.00			60.00
	2nd cross	1	30.00			30.00

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3rd cross	1	25.00			25.00
	2	30.00			60.00
	1	15.00			15.00
	1	30.00			30.00
3rd A cross	1	40.00			40.00
4th cross	1	30.00			30.00
	1	20.00			20.00
5th cross	1	45.00			45.00
main road	6	30.00			180.00
kanikraj road	2	30.00			60.00
				Actiual Qty	**595.00**
				Limited to	**580.00**

C&RC
6/6/2020

06/06/2020
Assistant Engineer
Ward No. 66
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6/6/2020
Assistant Executive Engineer
Byatarayanapura Sub Division
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